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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,357	01/11/2002	Beng S. Ong	D/A1656	6796
7590 04/02/2004			EXAMINER	
Patent Documebtation Center			TRUONG, DUC	
Xerox Corporation Xerox Square 20th Floor			ART UNIT	PAPER NUMBER
100 Clinton Ave. S.			1711	
Rochester, NY 14644			DATE MAILED: 04/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/042,357	ONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duc Truong	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 3/22/54 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 2-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 2-33 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 0325.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

The last office action is hereby withdrawn in view of Applicant's arguments. However, a new ground of rejection is cited herein based on the IDS submitted on

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2—33 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0402269 of record on 1449.

The reference discloses polythiophenes of the general formulas (figures IA, IB, IC, and IE) with so many variations on page 5.

Note that the reference further discloses the formula I, which can be read on the formula of claim2 and claim 21.

The reference further discloses processes to form the products of the claimed formulas (see example 1, claims 1,2, 4-6).

The disclosure of the reference differs from the instant claims in that it does not disclose all of the claimed formulas and the sue of specific catalyst in claim 29.

However, it does disclose the broad formulas with so many variations, and the use of ferric chloride in example 1, corresponding to this in claim 28.

Therefore, it would have been obvious to one of ordinary skill in the art to modify the variations of the formulas from the reference within the limitations of the instant claims since they have been shown to be effective in a similar system and thus would have

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been expected to provide adequate results. There is no showing of unexpected results derived from said use.

Claims 2-4 rejected under 35 U.S.C. 103(a) as being unpatentable over WO 9415368 or SATO or VAN HUTTEN, they are of record on 1449.

WO 9415368 discloses block copolymer of polythiophenes and derivatives (see claims 10-20; figure 7, examples, page 10, line 17, page 11, line 33.

SATO discloses the preparation of long alkyl-substituted oligothiophenes, see formulae 1-4.

VAN HUTTEN discloses the structure of thiophene based regioregular polymers and block copolymers and its influence of luminescence spectra, see figure 3.

The disclosures of the references differ from the instant claims in that they do not disclose all of the claimed formulae. However, they do disclose specific formulae which are included in the broad teachings of the claims. Therefore, it would have been obvious to one of ordinary skill in the art to modify the formulae and the variations from its formulae within the limitations of the instant claims to get the polythiophenes of the claimed formulae in the absence of a showing of unexpected results derived from said use.

Claims 5,7,9-12,19,20,29 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 5 and 11 recite the limitation "m" in line 2. There is insufficient antecedent basis for this limitation in the claim.

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Claim s 7,9,10,19,20 and 33 recite the limitation "A" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 12 recites the limitation "x,y,z" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 29 recites the limitation "IIIb" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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DUCTRUONG PRIMARY EXAMINER